transmitting a data signal over said allocated traffic channels from said base station to said mobile station;

measuring characteristics of the received data signal at the mobile station in each of said allocated traffic channels; and

controlling the transmission power of a base station on basis of the poorest one of said allocated traffic channels.

**30**. A method according to claim **29**, wherein said mobile telecommunications system is a code division multiple access (CDMA) system, and said traffic channels are CDMA traffic channels.

**31**. A method according to claim **30**, wherein said CDMA traffic channels are distinguished from each other by different spreading codes.

**32**. A method according to claim **30**, wherein said traffic channels are distinguished from each other by different Walsh functions.

**33**. A mobile telecommunications system, comprising:

a plurality of mobile stations;

a plurality of base stations; and

a high-speed data transmission mode having at least two parallel traffic channels allocated to a respective one of said mobile stations only in a downlink direction for high-speed data transmission between a respective serving one of said base stations and said respective one of said mobile stations, and a single control channel for controlling a transmission power of said respective one of said mobile stations from said respective serving one of said base stations.

**34**. A system according to claim **33**, wherein said mobile telecommunications system is a code division multiple access (CDMA) system, and said traffic channels are CDMA traffic channels.

**35**. A system according to claim **34**, wherein said CDMA traffic channels are distinguished from each other by different spreading codes.

**36**. A system according to claim **34**, wherein said traffic channels are distinguished from each other by different Walsh functions.

**37**. A system according to claim **31**, **32**, **33** or **34**, wherein said at least two parallel traffic channels are allocated for a high-speed data transmission only in one direction from the base station to the mobile station.

**38**. A mobile telecommunications system, comprising:

a plurality of mobile stations;

a plurality of base stations; and

a high-speed data transmission mode having at least two parallel downlink traffic channels allocated to a respective one of said mobile stations only in a downlink direction for high-speed data transmission from a respective serving one of said base stations to said respective one of said mobile stations, and a single downlink control channel for controlling of the transmission power of the selected respective one of the mobile stations.

**39**. A code division multiple access (CDMA) mobile telecommunications system, comprising:

a plurality of mobile stations;

a plurality of base stations; and

a high-speed data transmission mode having at least two parallel CDMA traffic channels allocated to a respective one of said mobile stations for high-speed data transmission from a respective serving one of said base stations to respective ones of said mobile stations, and a single control channel for controlling a transmission power of said respective one of said mobile stations from said respective serving one of said base stations, said at least two parallel traffic channels being allocated for a high speed data transmission only in the direction from the base station to the mobile station.

**40**. A method for power control in a code division multiple access (CDMA) mobile telecommunications system, said method comprising:

allocating at least two parallel CDMA traffic channels for high-speed data transmission over the radio path in direction from a base station of a fixed radio network to a mobile station;

transmitting a data signal over said allocated CDMA traffic channels from said base station to said mobile station;

measuring characteristics of the received data signal at the mobile station in each of said allocated CDMA traffic channels; and

controlling the transmission power of the base station on basis of the poorest one of said allocated CDMA traffic channels.

**41**. A code division multiple access (CDMA) mobile telecommunications system, comprising:

a plurality of mobile stations;

a plurality of base stations;

a high-speed data transmission mode having at least two parallel CDMA traffic channels allocated to a respective one of said mobile stations for high-speed data transmission between a respective serving one of said base stations and said respective one of said mobile stations; and

a single control channel for controlling a transmission power of said respective one of said mobile stations from said respective serving one of said base stations, wherein

said at least two parallel traffic channels are allocated for a high-speed data transmission only in one direction from the base station to the mobile station.

**42**. A code division multiple access (CDMA) mobile telecommunications system, comprising:

a plurality of mobile stations;

a plurality of base stations; and

a high-speed data transmission mode having at least two parallel downlink CDMA traffic channels allocated to a respective one of said mobile stations for high-speed data transmission from a respective serving one of said base stations to a respective serving one of said mobile stations, and a single downlink control channel for controlling of the transmission power of said respective serving one of the mobile stations, wherein

said at least two parallel traffic channels are allocated for a high-speed data transmission only in one direction from the base station to the mobile station.

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